Admin User Manual

Yomi EasyStreaming

Public

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Version	Author	Checked by	Approved by
1.0	2005-MAR-14 Heikki Rauhala	2005-MAR-14 Heikki Rauhala Janne Nykopp	

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CHANGE HISTORY

Date	Version	Author	Description of changes
2005-FEB-1	0.1	Markus Heikkilä	New document for administrating BlueGiga Access Point.
2005-FEB-3	0.2	Markus Heikkilä & Janne Nykopp	Adding section 2 & 3.
2005-FEB-7	0.3	Mikko Ravimo	Some minor modifications and corrections.
2005-FEB-8	0.4	Mikko Ravimo	Corrections based on review
2005-FEB-17	0.5	Mikko Ravimo	Minor modifications
2005-MAR-3	0.6	Markus Heikkilä	Added new parameter to section 1.2.3 query_connection.
2005-MAR-14	1.0	Heikki Rauhala	Approved to 1.0 version

DOCUMENT INFORMATION

The latest version of this document can be found at:

https://solidata.kicks-ass.org/solidata

REFERENCES

DOC	Documentation, System Procedure, Yomi Plc
CONF	Configuration Management, System Procedure, Yomi Plc
QMAN	Quality Manual, Yomi Plc
SWDEV	Software Development, Process Description, Yomi Plc

TERMS AND ABBREVIATIONS

TBD	To be defined
BT	Bluetooth
BG	BlueGiga box (see resources, devices)
SEPA	Software Engineering Practice Assignment

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1 ACCESS POINT INSTALLATION

1.1 Installing WRAP to Bluegiga access point with USB Dongle

NOTE: you can't install your own wpk packages at the same time when installing new WRAP. Install WRAP first then install wpk packages of your own.

NOTE: not all dongles work out-of-the-box with WRAP Multiradio Access Server. It is preferred to test your dongle with Linux desktop/laptop. If it works there, it works in WRAP Multiradio Access Server. You can also test yours with WRAP. Insert it and monitor the management console. If you get error messages and mount command hangs and WRAP needs to be rebooted, your dongle needs to be repartitioned and formatted to use only one partition in a Linux laptop. Buffalo and Sandisk dongles have worked out-of-the box.

New wrap software can be downloaded from https://secure.solinet.fi/bluegiga-techforum/ with appropriate username and password (e.g. wrap-2-0-3.zip).

1. Unzip the wrap with any zipping software (e.g. Winzip).
2. The WRAP to upgrade must have SW version 2.0.1 or 2.0.2 installed.
3. Create directory tree */wpkgd/in* to the dongle.
4. Copy *resizeram.wpk* to */wpkgd/in/0resizeram.wpk* in the dongle.
5. Copy *reflash.wpk* to */wpkgd/in/1reflash.wpk* in the dongle.
6. Insert dongle to the WRAP to be upgraded. When the upgrade is ongoing (leds start to flash, in up to 1 minute), you may remove the dongle. Installing the WRAP takes about 7 minutes.

1.2 Configuring USB stick with customer specific settings

NOTE: Configuration files must be UNIX format. End of line characters cause problems when using Windows.

1.2.1 Files needed to build sis file in access point

After compiling software you need to copy following files to *ap_deployment/development/sis_contents*:

c:\symbian\7.0s\series60_v20_b\epoc32\release\armi\urel\bmap.mbm
c:\symbian\7.0s\series60_v20_b\epoc32\release\armi\urel\yes.aif
c:\symbian\7.0s\series60_v20_b\epoc32\release\armi\urel\yes.app
c:\symbian\7.0s\series60_v20_b\epoc32\release\armi\urel\yes.rsc
license.txt – whatever you want

1.2.2 Modifying mobile application installation path to different

NOTE: Cannot be currently done and requires compiling mobile software.

1.2.3 Mobile software configuration file

Configuration file for mobile software is:
ap_deployment/development/setup/default.cfg

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ap_prefix='yeswrap'
Sets the prefix of the Bluetooth name.

homepage_url='http://192.168.0.12/'
Defines the homepage URL that mobile phone uses in browser to view content.

ap_bname='YesBearer'
Name of the bearer that is created in mobile phone.

ap_home_url=''
If content is someplace else than root of web directory, define it here (e.g. folder/folder2/).

use_homepage_url='true'
Define true if homepage_url is used. If false access point's IP address is used as homepage instead.

verbose='false'
If more info is wanted about what is happening in mobile phone make it true.

query_connection='true'
Set true if you want user to be asked if it is okay to connect to the access point. False doesn't display any query, it automatically connects to the access point.

1.2.4 Access point specific configuration

Configuration file for AP is *ap_deployment/development/setup/setup.cfg*

app_name='Yes'
This is reserved for modifying mobile application installation path. See section 1.2.2.

sis_name='yes'
Defines the name of sis packet that is sent to mobile phone when requesting installation package.

alias='*'
Defines the name what contact name must be sent to Bluetooth box ('*' means all messages are accepted).

1.2.5 Creating and installing work package with USB dongle

1. Run *./pack.sh* in directory *ap_deployment/development*.
2. Create directory tree */wpkgd/in* to the USB dongle.
3. Copy *ap_deployment/to_usb/wpkgd/in/2install.wpk* to USB dongle in */wpkgd/in/2install.wpk*.
4. Plug USB dongle to Bluegiga access point and wait that leds flash. Unplug the dongle and the new version is installed.

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2 MOBILE PHONE PACKAGE CUSTOMIZATION (YES SOFTWARE)

2.1 Creating organization specific icon and background image

1. Use e.g. Gimp to make four .bmp format icons and one .bmp format background image.
2. Create two 44x44, two 42x29 and one 175x144 sized .bmp images. Name images as following.
   yes_42x29i.bmp
   yes_42x29m.bmp
   yes_44x44i.bmp
   yes_44x44m.bmp
   yes_175x144.bmp

   Letter 'i' at the end of the filename indicates that it is normal image file and 'm' means a mask file. Draw a mask file with only black and white colors, where black means visible area and white means transparent area. Last image is the background image.
3. Copy manipulated images to Symbian program's *aif/yes_BMPs/* directory.
4. During compilation all images are saved to *bmap.mbm* file.
   Before compiling remove *bmap.mbm* files from:
   c:\symbian\7.0s\series60_v20_b\epoc32\release\armi\urel\bmap.mbm
   and Symbian program's *group/bmap.mbm* files.
5. Compile and run.

2.2 Change the visible program name

1. Edit the file *data/Yesaif.rss*.
2. Find the word "caption" and make the value of it to wanted name eg. caption="Yomi".
3. Compile and run.

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3 STREAMING SERVER INSTALLATION

1. Turn on the streaming server Linux workstation.
2. Download the streaming server install package from https://helixcommunity.org/beula/download?loc=/download.php/196/servinst_plus_linux-2.2-libc6-i586-server.bin (you have to login, so get an account first)
3. Send the file to streaming server host to /root/
4. Login to Streaming server host with root privileges
5. Start the installation program: root@panda:~# ./servinst_plus_linux-2.2-libc6-i586-server.bin
6. Press [Enter] to continue... <enter>
7. Directory: [/root]: /opt/helix/server <enter>
8. Username []: tester<enter>
9. Enter a password twice
10. Port [7070]:<enter>
11. Port [554]:<enter>
12. Port [80]:<enter>
13. Port [22421]:12345<enter>
14. Enter [F]inish to begin copying files, or [P]revious to go back to the previous prompts: [F]:<enter>
15. Copy all necessary media files to /opt/helix/server/Content
16. Change to servers bin directory: root@panda:~# cd /opt/helix/server/Bin
17. Start the server: root@panda:/opt/helix/server/Bin# ./hlxserverplus ../hlxserverplus.cfg

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